

Question:

If $\cos x - y^2 - \sqrt{y - x^2} - 1 \geq 0$, then

a) $y = 1$ and $x = 0$

b) none of these

c)

$y \geq 1$ and $x \in \mathbb{R}$

d)

$y \geq 1$ and $x = 2k\pi$, where $k \in \mathbb{I}$

Answer: $y = 1$ and $x = 0$